This sensor has two modes of operation. In slow mode it can be used to measure sound-pressure level in decibels. In fast mode it can display waveforms of different sound sources such as tuning forks and wind-chimes so that period and frequency can be determined. With two sound sensors, the velocity of propagation of sound in various media could be determined by timing a pulse travelling between them. The sound sensor is located in a plastic box accessible to the atmosphere via a hole in its side.

Specifications

- Used in the fields of of Physics, Mechanics, Biology, Environmental Science, Acoustics, etc.
- The sensor is pre-calibrated at the factory.
- Experiment duration: 25 milliseconds to 31 days.

	Sound level (dB)	Sound signal Arbitrary
Range and operation modes	40 to 110 dB	0-4096 arb
ADC Resolution	12 bits	
Accuracy	±2 dB	1
Resolution	0.1 dB	1
Max. sample rate (S/sec)	100	100,000
Frequency range		10-10,000 Hz

Sensor Requirements

Hardware

- **USB Module (USB-200)**
  Direct connection to the computer (PC, Mac, XO, or Linux)

or

- **WiFi Module (WIFI-201 or WIFI-202)**
  Wi-Fi communication – For any device which uses WiFi technology (ipads, Tablets, Smartphones and Computers)

- **Optional Accessories:**
  Battery Module, RF Communication Module, Graphic Display Module, Digital Display module

Software

- Application for Windows
- Application for Mac
- Web Application for WiFi module
- NeuLog Software

Multiple logger sensors can be used together!

Subject to Change